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Hyatt Jr.

Application Number

09/720,070

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09/27/96

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US006564601B2

(12) **United States Patent**
Hyatt Jr.

(10) Patent No.: **US 6,564,601 B2**
(45) Date of Patent: **May 20, 2003**

(54) **ELECTROMECHANICAL CYLINDER PLUG**

(76) Inventor: Richard G. Hyatt Jr., 2720 Timber Rd., Shawsville, VA (US) 24162

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **10/061,202**(22) Filed: **Feb. 4, 2002**(65) **Prior Publication Data**

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Related U.S. Application Data(63) Continuation of application No. 08/720,070, filed on Sep. 27, 1996.

(60) Provisional application No. 60/004,594, filed on Sep. 29, 1995, and provisional application No. 60/011,764, filed on Feb. 12, 1996.

(51) **Int. Cl.⁷** **E05B 49/00**(52) **U.S. Cl.** **70/278.3; 70/495; 70/277; 70/283.1; 70/278.7; 70/369; 340/5.2**(58) **Field of Search** **70/278.1-278.3, 70/277, 278.7, 280-283.1, 375, 389, 492, 493, 495, 496, DIG. 62, 367-369; 340/5.2**(56) **References Cited****U.S. PATENT DOCUMENTS**

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Primary Examiner—Suzanne Dino Barrett(74) *Attorney, Agent, or Firm*—Robert E. Bushnell, Esq.**ABSTRACT**

An electromechanical locking mechanism provides a plug with a rekeyable primary lock mechanism such as a tumbler stack, an electromechanical operator such as a solenoid or a motor, and an electronic circuit having a memory, or an electronic memory and an electronic logic stage, controlling activation and operation of the electromechanical operator, contained entirely within the plug. Insertion of a blade of a key that is properly profiled and bitted to correctly displace the primary lock assembly relative to a cylinder encasing the plug, and application by the key of electrical power, or of electrical power and a correct data signal, to the electronic circuit, will cause activation of the electrical operator and repositioning of a distal member of the operator relative to the cylinder, and thereby enable torque manually applied to the blade of the key to rotate the plug within the cylinder.

78 Claims, 20 Drawing Sheets